

MAY 15 2007

Serial No. 10/770,893
67097-022IN THE CLAIMS

1. (Currently Amended) An aluminum alloy comprising:
approximately 1.0 to 20.0% by weight of a first rare earth element selected from the group consisting of ytterbium and gadolinium;
a plurality of ~~insoluable~~insoluble particles formed of said first rare earth element;
approximately 0.1 to 10.0% by weight of at least one second rare earth element selected from the group consisting of gadolinium, erbium and yttrium if said first rare earth element is ytterbium or the group consisting of ytterbium, erbium and yttrium if said first rare earth element is gadolinium, wherein a combined weight of the first rare earth element and the at least one second rare earth element is greater than 10.0% by weight; and
at least one minor alloy element comprising copper, zinc, silver, magnesium, tin, titanium, cobalt or calcium, wherein a the balance of the aluminum alloy is aluminum.
2. (Currently Amended) The aluminum alloy as recited in claim 1 further including approximately 1.0 to 15% total by weight of the at least one minor alloy element.
3. (Currently Amended) The aluminum alloy as recited in ~~claim 2~~claim 1 wherein said at least one minor alloy element is selected from the group consisting of copper, zinc, silver,comprises magnesium, manganese, tin, titanium, cobalt and calcium.
4. (Currently Amended) The aluminum alloy as recited in claim 1 wherein said first rare earth element is ytterbium and said plurality of ~~insoluable~~insoluble particles are formed of said ytterbium
5. (Original) The aluminum alloy as recited in claim 4 wherein said at least one second rare earth element is said yttrium.

Serial No. 10/770,893
67097-022

6. (Currently Amended) The An aluminum alloy comprising as recited in claim 5 including approximately 14.0% to 15% by weight of a first rare earth element consisting of said ytterbium;
a plurality of insoluble particles formed of said first rare earth element; and
approximately 4.0% by weight of at least one second rare earth element consisting of said yttrium, wherein a balance of the aluminum alloy is aluminum.

7. (Currently Amended) The aluminum alloy as recited in claim 1 wherein said first rare earth element is gadolinium and said plurality of insolubleinsoluble particles are formed of said gadolinium

8. (Original) The aluminum alloy as recited in claim 7 wherein said at least one second rare earth element is said yttrium.

9. The An aluminum alloy comprising as recited in claim 8 including approximately 13.0 to 16.0% by weight of at least one first rare earth element consisting of said gadolinium;
a plurality of insoluble particles formed of said first rare earth element; and
approximately 4.0% by weight of at least one second rare earth element consisting of said yttrium, wherein a balance of the aluminum alloy is aluminum.

Serial No. 10/770,893
67097-022

10. (Currently Amended) A gas turbine engine component comprising:
components of an aluminum alloy including approximately 1.0 to 20.0% of a first rare earth element selected from the group consisting of gadolinium and ytterbium, a plurality of insoluble particles formed of said first rare earth element, approximately .01_0.1 to 10.0% by weight of at least one second rare earth element selected from the group consisting of gadolinium, erbium and yttrium if said first rare earth element is ytterbium or the group consisting of ytterbium, erbium and yttrium if said first rare earth element is gadolinium, and at least one minor alloy element comprising copper, zinc, silver, magnesium, tin, titanium, cobalt or calcium, wherein a combined weight of the first rare earth element and the at least one second rare earth element is greater than 10.0% by weight and the-a balance of the aluminum alloy is aluminum.

11. (Original) The gas turbine engine component as recited in claim 10 further including approximately 1.0 to 15% total by weight of at least one minor alloy element.

12. (Original) The gas turbine engine component as recited in claim 11 wherein said at least one minor alloy element is selected from the group consisting of copper, zinc, silver, magnesium, manganese, tin, titanium, cobalt and calcium.

13. (Currently Amended) The gas turbine engine component as recited in claim 10 wherein said first rare earth element is ytterbium and said plurality of insoluble particles are formed of said ytterbium

14. (Original) The gas turbine engine component as recited in claim 13 wherein said at least one second rare earth element is yttrium.

15. (Currently Amended) The gas turbine engine component as recited in claim 10 wherein said first rare earth element is gadolinium and said plurality of insoluble particles are formed of said gadolinium.

Serial No. 10/770,893
67097-022

16. (Original) The gas turbine engine component as recited in claim 15 wherein said at least one second rare earth element is yttrium.

17.-25. (Cancelled)

26. (New) The aluminum alloy as recited in claim 1, wherein the combined weight of the first rare earth element and the at least one second rare earth element is greater than 11.0% by weight.

27. (New) The aluminum alloy as recited in claim 1, consisting essentially of the first rare earth element, the at least one second rare earth element, the at least one minor alloy element, and the aluminum.

28. (New) The aluminum alloy as recited in claim 1, comprising approximately 0.1% to 6% by individual weight of at least two of the minor elements.

29. (New) The aluminum alloy as recited in claim 28, wherein a combined amount of the minor alloy elements is approximately 1% to 15% by weight.